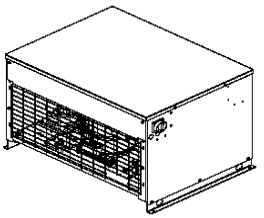
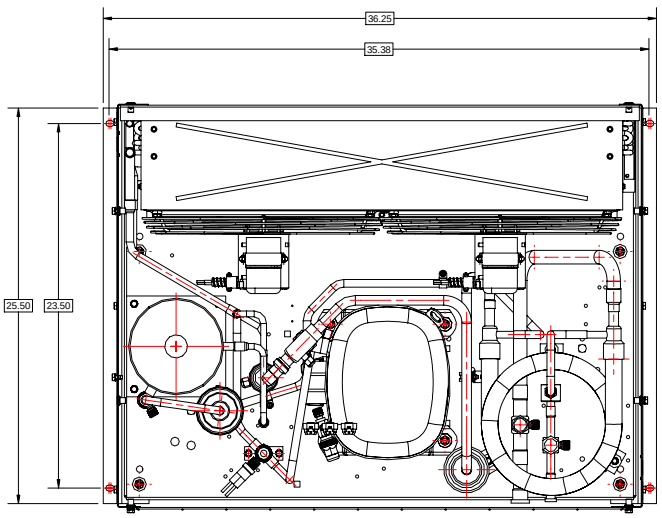
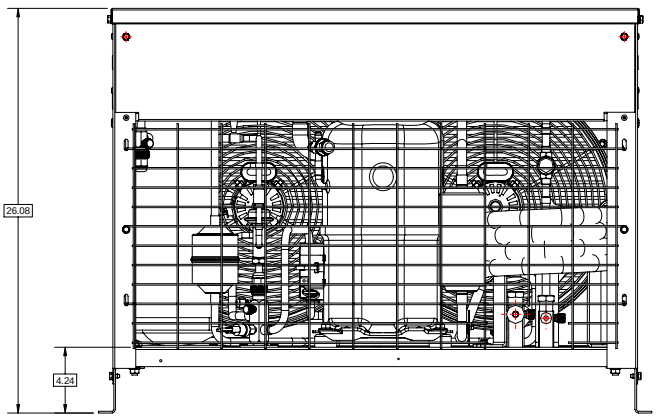
AVA9522ZXTHN
TPC___REV 1
March 21, 2012

TECUMSEH HERMETIC CONDENSING UNIT

Model	**AVA9522ZXTHN**
BOM	**32L3152-2E**
Air Cooled	**2 ¾ HP**
Application	**Commercial Temp**
Refrigerant	**R404A**







Model	Dim. Enclosure(inch)*			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90%@90°F	SCFM	Oz.	Lbs.
AVA9522ZXTHN	31.50	40.50	26.75	7/8	1/2	20.45	1800	54	340

*) Enclosure Mounting Holes, 38.5 x 25.5

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temeratures															
		80°F				95°F				100°F				110°F			
°F	Psig	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-10	23.2	10500	2460	211	90	9300	2450	256	104	8600	2440	273	109	7000	2400	308	118
-5	27.5	12100	2630	217	92	10700	2650	262	106	9900	2650	279	110	8300	2630	314	119
0	32.1	13800	2800	223	94	12100	2850	269	107	11300	2860	285	112	9600	2860	321	121
5	37.0	15600	2980	230	95	13700	3050	275	109	12800	3070	292	113	11000	3080	327	122
10	42.4	17500	3150	237	97	15300	3250	283	110	14400	3280	299	114	12500	3310	334	123
15	48.2	19500	3330	245	99	17100	3460	291	112	16100	3490	307	116	14100	3540	342	125
20	54.5	21700	3510	253	100	18900	3660	299	113	17900	3700	316	117	15800	3770	350	126
25	61.2	24000	3700	263	102	20900	3880	308	115	19800	3930	325	119	17600	4010	359	128
30	68.4	26400	3900	273	104	23100	4100	319	117	21800	4150	335	121	19500	4250	368	129
35	76.1	29000	4110	284	106	25300	4330	329	119	24000	4390	345	123	21600	4510	378	131
40	84.4	31800	4330	296	109	27700	4570	341	121	26300	4640	357	125	23800	4770	390	133
45	93.2	34700	4570	309	111	30300	4830	354	123	28800	4910	370	127	26100	5050	402	135
50	103.0	37800	4820	323	114	33000	5100	368	126	31400	5180	384	129	28500	5340	415	137
55	113.0	41100	5090	339	117	35900	5390	384	129	34200	5480	399	132	31100	5650	430	140

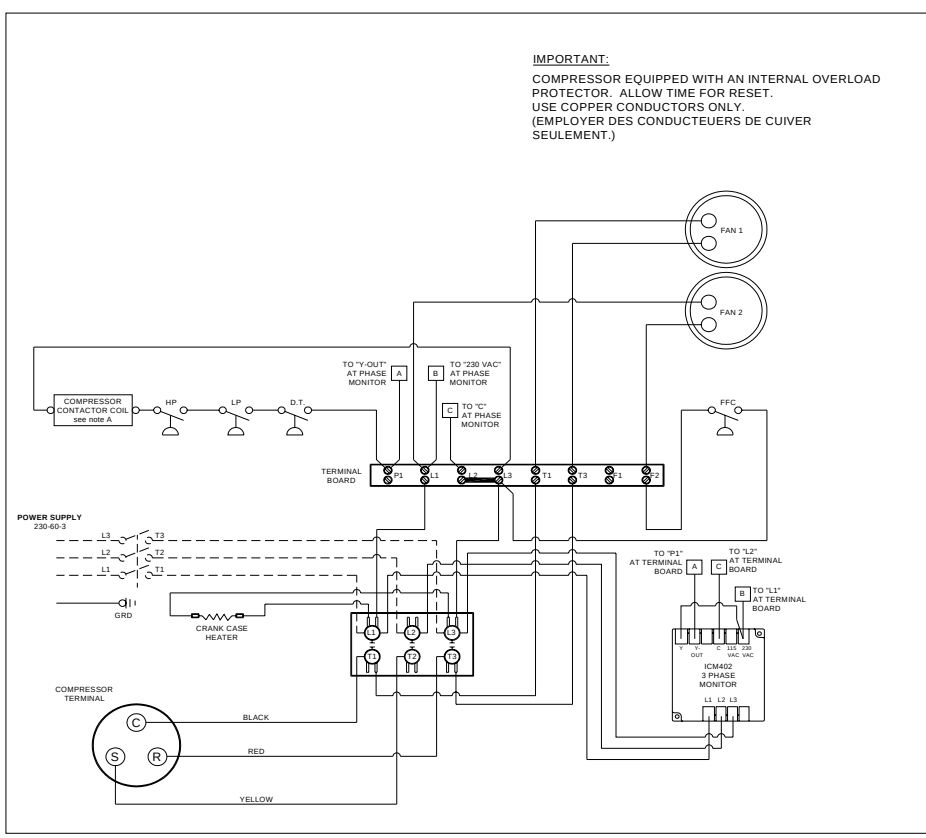
Performance @ 60 Hz ; Return Gas Temperature 20°F max superheat above 20°F evap, 40°F max below 20°F evap ; -- SubCooling 5°F

PRELIMINARY PERFORMANCE DATA

Parts/Specifications

STANDARD

Unit BOM	**32L3152-2E**	Fan Motor	810F050C20	Fix.Fan Switch #1 (F opt.)	84132-01
Unit MODEL	**AVA9522ZXTHN**	Fan Motor Qty	2	Fix.Fan Switch #2 (F opt.)	
		Fan Motor RLA	0.7	Adjus. Fan Ctrl. (A opt.)	
Refrigeration RANGE	-10°F to 45°F	Fan Blade	51568	Defrost Clock (Tn option)	
Design Pressure Low	181	Fan Guard	70831	Defrost Heaters Contactor	
Design Pressure High	450	Shroud	70648-2	Rec. Heater (R option)	
Volts - HZ - Ph	200-230V 3~ 60HZ			Solenoid Valve (loose)	
Voltage Range	180 - 254	High Pressure switch	84095-2L	Disconnect (D option)	
Min. Circuit Ampacity	21.24	Low Pressure Control	84026-2		
Max. Fuse Size	35	Dual Pressure Conrol		Wiring with F option	WD23-2AT2
				Wiring with A option	
Compressor MODEL	AV203RT-012-A2	Condenser	50858-1		
Compressor BOM	AVA9522ZXT	Head Master Valve	70083-1	Phase Monitor, ICM402	900-10026
Compressor LRA	74	Check Valve	56626	**BOM INDEX DESCRIPTION**	
Compressor RLA	10.30	Process Valve	31583-1		
		Liquid Valve	56500-K08		
OverLoad		Suction Valve	56500-K14	**32xYYYY- 2ERA(F)TnDS**	
Relay				E Enclosure	
Run Capacitor		Receiver	51099-2L	R Receiver Heater	
Run Capacitor Rating		Receiver Qty	1	A Adjustable fan control	
Start Capacitor		Accumulator		F Fixed fan Control	
Start Capacitor Rating		Liquid Filter	52000-084D	T1 Defrost timer option	
Contactor	91014B	Sight Glass	70084-2	T2 Defrost timer & Defrost Heaters Contactor	
		Suction Filter	70822-5S	D Disconnect	
Unit Drawing	DGU1920-L102			S Solenoid liquid Valve (supplied loose)	
Wiring Diagram	WD23-2FM	CrankCase Heater	90699		



NOTES

FIELD WIRING NOTES

1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING

GENERAL NOTES:

A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.

AFC — ADJUSTABLE FAN CONTROL
LP — LOW PRESSURE CONTROL
HP — HIGH PRESSURE SWITCH
D.T. — DISCHARGE THERMOSTAT
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 3 Ph, fixed fan control,
PHASE MONITOR OPTION

REVISION	AUG. 18, 2009	WD23-2FM
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